

EL PASO #1 RED LAKE (STRAT) *7ed* 542
SW SW 22-26N-16W MOHAVE CO.

P-W

DAILY STEM TEST			
NO.	FROM	TO	RESULTS
			NA

CORE RECORD				
NO.	FROM	TO	RECOVERY	REMARKS
				10 Cores - See File

NO.	FROM	TO	RECOVERY	REMARKS
				10 Cores - See File

DATE STARTED - COMPLETED		WORK PERFORMED	NEW PERFORATIONS

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG									
DESIGNATE TYPE OF COMPLETION: Strat Test									
New Well <input checked="" type="checkbox"/>	Work-Over <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Reservoir <input type="checkbox"/>	Different Reservoir <input type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>	Dry <input type="checkbox"/>	
DESCRIPTION OF WELL AND LEASE									
Operator El Paso Natural Gas Company					Address 600 Bldg. of SW, Midland, Texas 79701				
Federal, State or Indian Lease Number or name of lessor if fee lease Fed. A-4575 Red Lake Prospect					Well Number 1		Field & Reservoir Wildcat		
Location 330 FSL & 660 FWL					County Mohave				
Sec. TWP-Range or Block & Survey Section 22, T-26-N, R-16-W									
Date spudded 7-1-70		Date total depth reached 7-31-70		Date completed, ready to produce N.A.		Elevation (DE, RKB, RT or Gr.) 2804.36 feet		Elevation of casing hd. flange feet	
Total depth 5994		P.B.T.D. same		Single, dual or triple completion? N.A.		If this is a dual or triple completion, furnish separate report for each completion.			
Producing interval (s) for this completion None					Rotary tools used (interval) surface to 5994'		Cable tools used (interval) None		
Was this well directionally drilled? No		Was directional survey made? No		Was copy of directional survey filed? N.A.		Date filed N.A.			
Type of electrical or other logs run (check logs filed with the commission) Gamma Density, Neutron, Porosity, Sonic Caliper								Date filed When received from logging companies	
CASING RECORD									
Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)									
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled			
Conductor	17 1/2	12 3/4	51	36'	15	ZERO			
Surface csg	9 7/8	7	20	1692	325	ZERO			
	6 1/4			T.D.					
TUBING RECORD				LINER RECORD					
Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)		
2 7/8 in.	5968 ft	none ft.	in.	ft.	ft.				
PERFORATION RECORD				ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD					
Number per ft.	Size & type	Depth Interval		Am't. & kind of material used			Depth Interval		
None									
INITIAL PRODUCTION None									
Date of first production		Producing method (Indicate if flowing, gas lift or pumping—If pumping, show size & type of pump:)							
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)			
Tubing pressure	Casing pressure	Cal'd rate of Pro- duction per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio			
Disposition of gas (state whether vented, used for fuel or sold):									
<p>CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Production Supervisor</u> of the <u>El Paso Natural Gas Company</u> (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated herein are true, correct and complete to the best of my knowledge.</p> <p>August 10, 1970 Date</p> <p style="text-align: right;"><i>Will L. ...</i> Signature</p>									
				<p>STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION</p> <p>Well Completion or Recompletion Report and Well Log</p> <p>Form No. 4 File One Copy</p>					
Permit No. 542									

(Complete Reverse Side)

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Valley Fill ? ?	Surface 1796	1796 TD	Anhydrite, brown & gray shale Salt

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

Form No. 4

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

A-4575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Red Lake

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 22, T-26-N, R-16-W

12. COUNTY OR PARISH

Mohave

13. STATE

Arizona

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Strat Test

2. NAME OF OPERATOR

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 330'S, 660'W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, WT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Tried to pull tubing on February 21, 1974, but tubing was stuck.

Backed off tubing at 4860' on February 22, 1974. Spotted 25 sk. cement plug at 4860', (29 cu. ft. - approximate fill was 162').

Spotted a 50 sk. cement plug at 1765' on February 23, 1974, (59 cu. ft. - approximate fill was 288').

Spotted a 30' cement plug at surface and installed dry hole marker.

RECEIVED

MAY 10 1977

D & G CONS. COMM.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Drilling Engineer

DATE February 26, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

cc: Arizona Oil & Gas Conserv. Comm.
Phoenix, Arizona 85020

*See Instructions on Reverse Side

DATE April 11, 1977

DATE

GEOLOGICAL SURVEY
RECEIVED

MAR 1 1974

BAKERSFIELD

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat

OPERATOR El Paso Natural Gas Company ADDRESS PO Box 990, Farmington, NM 87401
Federal, State, or Indian Lease Number or Lessor's Name if Fee Lease A-4575 WELL NO. 1
SURVEY T-26-N, R-16-W SECTION 22 COUNTY Mohave
LOCATION 330'S, 660'W

TYPE OF WELL Strat Test TOTAL DEPTH 5994'
(Oil, Gas or Dry Hole)
ALLOWABLE (If Assigned)
LAST PRODUCTION TEST OIL _____ (Bbls.) WATER _____ (Bbls.)
GAS _____ (MCF) DATE OF TEST _____
PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD

12 3/4" conductor pipe cemented with 15 sks.
1692' of 7" casing cemented with 325 sks.
5968' of 2 7/8" tubing.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Plan to pull tubing and spot 25 sks. cement plug
on bottom. Come up the hole and spot a 50 sk. cement plug at 1750'. Spot a 25 sk.
cement plug at surface and install dry hole marker.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS 2-19-74

NAME OF PERSON DOING WORK Donald R. Read ADDRESS PO Box 990, Farmington, NM

CORRESPONDENCE SHOULD BE SENT TO Larry Van Ryan

RECEIVED

O & G CON. Comm.

Name
Chief Drilling Engineer

El Paso Natural Gas Company
Post Office Box 990, Farmington, NM 87401

Address
February 25, 1974
Date

Date Approved _____
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

By: _____

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Abandon and Plug
File Two Copies

Form No. 9

Permit No. 542

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP DATE
(Other instructions re-
verse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

A-4575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Red Lake

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T. R. M. OR BLK. AND
SURVEY OR AREA

Sec. 22, T-26-N, R-16-W

12. COUNTY OR PARISH 13. STATE

Mohave

Arizona

1. OIL ☐ GAS ☐ OTHER ☐ Strat Test

2. NAME OF OPERATOR

El Paso Natural Gas Company

3. ADDRESS OF OPERATOR

PO Box 990, Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

330'S, 660'W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

SUBSEQUENT REPORT OF:

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(Note: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)

Pull tubing.

Spot a 25 sks. cement plug at Total Depth.

Spot a 50 sks. cement plug at 1750'.

Spot a 25 sks. cement plug at surface.

Install dry hole marker.

RECEIVED

O & G COMS. COMM.

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

Drilling Engineer

DATE February 26, 1974

(This space for Federal or State office use)

APPROVED BY

TITLE

District Engineer

DATE March 1, 1974

CONDITIONS OF APPROVAL, IF ANY:

cc - BIX, Phoenix, Arizona

Oil & Gas Commission, Phoenix

SEE ATTACHED CONDITIONS AND REQUIREMENTS

*See Instructions on Reverse Side

This copy for

GEOLOGICAL SURVEY
RECEIVED

MAR 1 1974

BAKERSFIELD

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) _____

3. Well Name Red Lake #1

Location 330'S, 660'W

Sec. 22 Twp. T-26-N Rge. R-16-W County Mohave Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease A-4575

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <input type="checkbox"/>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

2-21-74 Attempted to pull tubing, but tubing was stuck.

2-22-74 Backed off tubing at 4860'. Spotted 25 sks. cement plug at 4860' (29 cu. ft. of slurry- approximately 162' of fill).

2-23-74 Spotted 50 sks. cement plug at 1765'. (59 cu. ft. of slurry, approximately 288' of fill).

Spotted 30' plug at surface.

Installed dry hole marker.

RECEIVED

FEB 26 1974

O & G CON. COM.

8. I hereby certify that the foregoing is true and correct.

Signed: [Signature]

Title Drilling Engineer

Date February 25, 1974

Permit No. 542

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25 Plugging Report

February 13, 1974

Memo to File: El Paso #1 Red Lake Strat
SW/SW Section 22-T26N-R16W
Mohave County
Permit No. 542

Memo from W. E. Allen, Director
Enforcement Section

Larry vanRyan called this date requesting permission to plug the above referenced well. The well will be plugged as follows:

25 sack cement bottom plug
25 sack cement plug will be placed across the
7" casing at 1692' and a 25 sack cement top
plug with dry hole marker.

They expect this work to be done within 30 days or
sooner if a rig is available.

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat Test

3. Well Name Red Lake No. 1

Location 330'S, 660'W

Sec. 22 Twp. 26N Rge. 16W County Mohave Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease A-4575

5. Field or Pool Name _____

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) <u>Status Request & Report</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

There has been no work done on this well since the last report was filed on June 13, 1973.

The Production Department is preparing a procedure to plug and abandon the well according to the Arizona Commission and U.S.G.S. requirements.

RECEIVED

DEC 10 1973

O & G CON. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed Don Reed

Title Petroleum Engineer

Date December 6, 1973

Permit No. 542

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25

SUNDRY NOTICES AND REPORTS ON WELL

1. Name of Operator El Paso Natural Gas Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat Test
 3. Well Name Red Lake #1
 Location 330'S, 660'W
 Sec. 22 Twp. 26N Rge. 16W County Mohave Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease A-4575

5. Field or Pool Name _____

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Strat Request & Report</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

There has been no work done on this well since the last report was filed on January 2, 1973.

Permission is requested to retain this well in its present temporarily abandoned status in order to facilitate use of the well for future down hole temperature and/or pressure studies.

See our letter dated February 10, 1972.

APPROVED

By [Signature]
 Date 6-14-73

RECEIVED

JUN 14 1973

O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed A. G. Buico Title Drilling Clerk Date June 13, 1973

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies

Form No. 25

542

Permit No. _____

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat Test

3. Well Name Red Lake #1

Location 330'S, 660'W

Sec 22 Twp 26N Rge 16W County Mohave Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease A-4575

5. Field or Pool Name _____

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Strat Request & Report</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

There has been no work done on this well since the last report was filed on 8-1-72.

Permission is requested to retain this well in its present temporarily abandoned status in order to facilitate use of the well for future down hole temperature and/or pressure studies.

RECEIVED

JAN 02 1973

O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed [Signature]

Title Division Petroleum Engineer Date January 2, 1973.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies

Form No. 25

Permit No. 542

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat Test
 3. Well Name Red Lake #1
 Location 330'S, 660'W
 Sec. 22 Twp. 26N Rge. 16W County Mohave, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease A-4575

5. Field or Pool Name _____

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Status Request & Report</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

There has been no work done on this well since the last report was filed on 1-31-72.

Permission is requested to retain the well in its present temporarily abandoned status in order to monitor down hole temperature and/or pressure.

Permission is granted to maintain the above well in a temporary abandon status until January 1, 1973. Please furnish this office with temperature and pressure surveys.

W. E. Allen, Director
Enforcement Section

RECEIVED

AUG 03 1972

O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed W. E. Allen

Title Division Petroleum Engineer

August 1, 1972

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies

Form No. 25

Permit No. 3

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company
2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat Test
3. Well Name Red Lake #1
Location 330'S, 660'W
Sec. 22 Twp. 26N Rge. 16W County Mohave, Arizona.
4. Federal, State or Indian Lease Number, or lessor's name if fee lease A-4575

5. Field or Pool Name _____

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Status Request & Report</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Temperature surveys were run by Birdwell on 8-31-70 and 8-12-71. (Copies are forwarded under separate cover to W. E. Allen.)

Permission is requested to retain the well in its present Temporarily Abandoned status in order to continue monitoring down hole temperatures.

RECEIVED

FEB 10 1972

O & G CONS. COMM.

8. I hereby certify that the foregoing is true and correct.

Signed [Signature]

Title Division Petroleum Eng. Date February 1, 1972

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies

Form No. 25

Permit No. 542

RED LAKE NO. 1
El Paso Natural Gas Company
SW Section 22, T26N, R16W
Mohave County, Arizona

#542

Sample Description

Core No. 1 1957-2007'. Rec 49':

1957-60 Halite, clear, 1 xln w/+5% brn sh mat thru out, trs of wht anhy inc.

60-64 Halite, clear, 1 xln w/approx 5% brn sh inc.

64-65 Halite, clear, 1 xln w/-5% brn sh mat thru out.

65-66.5 Halite, AA, w/5% brn sh mat scattered thru out.

66.5-70 Halite, clear, 1 xln w/-5% brn sh mat thru out.

70-74 Halite AA w/tr anhy inc.

74-75.5 Halite, clear w/s xln, w/5% brn sh mat thru out.

75.5-78 Halite, clear, s xln w/few lx w/-5% brn sh mat scattered thru out.

78-80 Halite, clear, highly broken zone, brecciated, may be due to fault movement, contains clean halite, brn slst w/halite x embd and halite w/few anhy inc.

80-88 Halite, clear, mostly 1 xln w/5% sh mat thru out.

88-92.5 Halite, s xln w/-5% brn sh thru out.

92.5-93 Halite and brn sh zone 30% sh.

93-96.5 Halite, 1 xln w/5% brn sh mat thru out.

96.5-97 Sh, brn w/few s x halite embd

97-2001 Halite, clear s xln w/5% brn sh mat thru out, -5° dip was noted.

2001-04 Halite, clean, 1 xln w/5% brn sh mat thru out.

04-06 Halite, clear, 1 xln w/tr brn sh mat, zone highly broken due to core barrel.

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D & G C.

Core No. 2 2007-2057'. Rec 48.5':

- 2007-09 Halite, clean, 1 xln w/10% brn sh mat thru out.
- 09-10 A diagonal line across approx 1" (2009) of core separates a sh brn w/s x halite from clean halite, 40% sh.
- 10-13 Halite, clean 1 xln, no brn sh mat present.
- 13-13.2 Sh brn, stringer w/approx 30% dip.
- 13.2-17 Halite 1 xln w/15% brn sh mat, large inc noted.
- 17-21 Halite, clean 1 xln w/5%- brn sh mat present.
- 21-22 Halite, 1 xln w/anh y inc and -5% brn sh mat thru out.
- 22-28 Halite, 1 xln w/15% brn sh mat thru out, large brn sh inc present.
- 28-30 Halite, clear 1 xln w/-5% brn sh mat present.
- 30-34 Halite, clean, 1 xln w/5% brn sh mat present, large brn sh inc noted.
- 34-36 Halite, clear, 1 xln, no brn sh present.
- 36-38 Sh brn -5° dip noted.
- 38-45 Halite, clean, w/5% brn sh mat thru out.
- 45-45.5 Halite, 1 xln, clear.
- 45.5-53 Halite, 1 xln, clear w/10% brn sh mat thru out.
- 53-53.7 Sh, gry to lt grn, w/vf grn, w/vf xln halite mat present.
- 53.7-55 Halite, 1 xln, clear w/10% brn sh mat thru out.

Core No. 3 3013-3063'. Rec 50':

- 3013-14.5 Halite, 1 xln clear w/-5% brn sh mat.
14.5-16 Halite, 1 xln, clean.
16-18 Halite, 1 xln, -5% brn sh mat present.
18-18.2 Halite, 1 xln, clean.
18.2-23 Halite m-1 xln w/5% brn sh mat present.
23-26.5 Halite AA w/-5% brn sh mat.
26.5-28 Halite, m xln clear w/tr brn sh.
28-30 Halite, 1 xln, clear w/5% brn sh mat thru out.
30-42 Halite, 1 xln clean w/10% brn to tan sh mat thru out, many large sh inc were noted.
42-49 Halite 1 xln, clean, w/5% brn & gry sh mat thru out.
49-55.5 Halite, 1 xln, clean, w/5% gry sh mat thru out.
55.5-57 Halite, 1 xln, clear, w/-5% brn sh mat thru out.
57-59 Halite, 1 xln, clean, w/10% brn sh mat thru out.
59-63 Halite, s-1 xln, clean to some mlky w/-5% brn sh mat.

Core No. 4 3063-3113'. Rec 50':

- 3063-76 Halite, 1 xln, pk to tan w/-5% redish brn sh mat present.
76-78 Halite, 1 xln, smoky, w/gry clay inc present, sh cont -5%.
78-83 Halite, 1 xln, clean w/brn sh mat thru out, 5%.
83-85.5 Halite, 1 xln, clear.
85.5-86 Halite, clean, to sl redish brn w/-5% brn sh mat.

Core No. 4 - Continued:

- 86-92 Halite, 1 xln, clean, w/-5% brn sh mat present.
- 92-98 Halite AA, w/15% brn sh mat thru out, large sh inc were noted.
- 98-3100.5 Halite AA, w/tr brn sh mat present.
- 3100.5-08 Halite, 1 xln, clean, w/-5% brn sh inc present.
- 08-10 Halite, 1 xln w/tr brn sh mat present.
- 10-13 Halite AA, w/5% sh mat thru out.

Core No. 5 4009-4059'. Rec. 50':

- 4009-26.3 Halite, 1 xln, clean, w/5% brn sh mat thru out.
- 26.3-26.6 Halite, 1 xln, clear w/1" stringer brn sh, no dip noted.
- 26.6-32.5 Halite, s-1 xln, clear w/-5% brn sh mat present.
- 32.5-35.5 Halite, 1 xln, clear w/10% brn sh mat thru out, large sh inc were noted.
- 35.5-38 Halite, 1 xln, clear w/5% brn sh mat present.
- 38-48.5 Halite, 1 xln, clear, w/5% dk gry to blk sh mat thru out.
- 48.5-50 Halite, 1 xln, clean, w/-5% brn sh mat thru out.
- 50-56 Halite, 1 xln, clear, w/5% brn sh mat thru out.
- 56-57.5 Halite, 1 xln, clean w/-5% brn sh mat.
- 57.5-59.5 Halite, s xln, clean w/5% dk gry to blk mat (?) thru out.

Core No. 6 4059-4109'. Rec 50':

4059.5-71 Halite, s-l xln, clean, w/15% brn sh mat thru out, some sh inc noted.

71-72.5 Halite, l xln, clear, ~5% brn sh mat present.

72.5-73.5 Halite, l xln, some s xln, clean, w/10% brn sh mat present.

73.5-77 Halite, l xln, clean, w/-5% brn sh mat present. At top 4076' sh brn stringer, -1" wide.

4077-81.5 Halite, l xln, clear w/tr brn sh mat.

81.5-83 Halite, s xln, buff in colo. No sh noted.

83-86 Halite, s xln w/15% brn sh mat present.

86-92 Halite, l xln, clear, w/-5% brn sh mat present.

92-93 Sh, gry w/m x halite embd.

93-95 Halite, l xln, clear, w/5% gry sh mat thru out.

95-98.5 Halite, l xln, clear w/5% gry sh mat thru out.

98.5-4105 Halite, l xln, clear, w/15% brn sh mat thru out. At 98.5' 1" brn sh stringer.

4105-10 Halite, l xln, clean, w/-5% brn sh mat present.

Core No. 7 4994-5044'. Rec 50':

4994-98 Halite, l xln, clean, w/-5% brn sh mat present.

98-5002 Halite AA, w/5% brn sh mat thru out, some sh inc were noted.

02-03.5 Halite, m-l xln, clean, highly broken w/-1" bu sh stringer at 5002'.

03.5-04.5 Halite, l xln, clean w/bu sh mat thru out 5%.

Core No. 7 - Continued:

- 04.5-07 Halite, 1 xln, clean, to lt gry, w/tr bu sh mat thru out.
- 07-08 Halite, 1 xln, clean, w/-5% bu sh mat present.
- 08-09 Halite, 1 xln, clear, highly broken prob due to coring.
- 09-11 Halite, 1 xln, clean w/tr bu sh -5% mat present.
- 11-16 Halite, s-m xln, clean, sl mlky w/5% brn sh mat present.
- 16-17 Halite, 1 xln, clean.
- 17-20.7 Halite, s-l xln, clear w/10% brn sh mat.
- 20.7-22.5 Halite, 1 xln, -5% brn sh mat present.
- 22.5-23 Halite, s xln, clean w/10% bu sh mat thru out.
- 23-24 Halite, 1 xln, clean.
- 24-25 Halite, AA w/10% brn sh mat, large sh inc.
- 25-26.3 Halite, 1 xln, clean, w/5% brn sh mat present thru out.
- 26.3-27.3 Halite, 1 xln, clear, w/20% gry sh mat present.
- 27.3-28 Halite, 1 xln, clear.
- 28-28.5 Halite, 1 xln, w/20% gry sh mat thru out.
- 28.5-30.5 Halite, 1 xln, clear.
- 30.5-32 Halite, s-l xln, w/5% brn sh mat thru out.
- 32-32.5 Halite, 1 xln, clean.
- 32.5-41 Halite, s-l xln, clear, w/10% brn sh mat thru out.
- 41-44 Halite, 1 xln, clean w/-5% brn sh mat present.

Core No. 8 5044-5094'. Rec 50':

- 5044-50 Halite, 1 xln, clean w/-5% brn sh mat present.
- 50-51.5 Halite, s-l xln, clean w/5% brn sh mat thru out.
- 51.5-55 Halite, 1 xln, clean, w/sl tr brn sh.
- 55-59 Halite, s-m xln, clean, w/-5% gry sh mat present. At 58-59' contact brnsh sh brake w/sm halite x embed.
- 59-63 Halite, 1 xln, clean w/-5% tan-lt gry sh mat present.
- 63-73 Halite, 1 xln, clean w/5% tan-brn sh mat present.
- 73-75 Halite, s-l xln, congluc zone w/pk to redish brn halite w/5% brn sh mat.
- 75-79 Halite, 1 xln, clean, w/10% brn sh mat thru out.
- 79-84 Halite, 1 xln, clean w/tr of brn sh mat.
- 84-87 Halite, s xln, clean w/5% brn sh mat present.
- 87-89 Halite, 1 xln, clean, w/-5% brn sh mat.
- 89-89.5 sh and halite stringer w/50% brn sh and 50% halite, sx embd in sh.
- 89.5-94 Halite, s xln, clean, appears to have been crushed and w/-5% brn sh mat.

Core No. 9 5900-5950'. Rec. 50':

- 5900-06 Halite, 1 xln, clear w/-5% brn sh mat present.
- 06-08 Halite, 1 xln, clean w/tr brn sh mat.
- 08-10 Halite, 1 xln, clean to gryish -5% w/sl gry sh mat present.
- 10-11 Halite, 1 xln, clean to mlky, highly broken prob caused from coring.
- 11-13 Halite, smky, s xln w/few l xln, w/brn sh inc, sh content -5%.
- 13-13.5 Halite, 1 xln, clear.
- 13.5-14.5 Halite, 1 xln, gryish color w/tr dk gry to blk sh mat.

Core No. 9 - Continued:

- 14.5-15.5 Halite, 1 xln, clear w/-5% brn sh mat present.
15.5-17 Halite, s-1 xln, clear, w/10% brn sh mat thru out.
17-20.5 Halite, 1 xln, clear w/-5% brn sh mat.
20.5-24 Halite, 1 xln, clean w/5% brn sh mat, few large sh inc present.
24-26 Halite, 1 xln, clear.
26-29 Halite, s xln, redish-pk w/tr brn sh mat present.
29-31 Halite, 1 xln, clean w/few sm brn sh inc, -5% sh.
31-35 Halite, 1 xln, clear w/-5% brn sh mat thru out.
35-41 Halite AA w/15% brn sh mat.
41-50 Halite AA w/-5% brn sh mat.

Core No. 10 5950-5994'. Rec 44':

- 5950-55 Halite, 1 xln, clear, w/-5% brn sh mat.
55-56 Halite, 1 xln, clear, w/tr brn sh mat.
56-60 Halite, 1 xln, clear, w/5% brn sh mat thru out.
60-65 Halite AA w/-5% brn sh mat.
65-67 Halite, 1 xln, clear w/10% brn sh mat.
67-72 Halite, 1 xln, clear w/-5% brn sh mat.
72-74.5 Halite, s-1 xln w/10% brn sh mat.
74.5-82 Halite, 1 xln, clean w/-5% brn sh mat.
82-84 Halite, AA w/10% brn sh mat thru out.

Core No. 10 - Continued:

84-86 Halite, 1 xln, clean w/10% dk gry to blk sh mat thru out.
Noted this diff from rest of color interval.

86-89 Halite, 1 xln, clear w/-5% brn sh mat.

89-89.5 Halite, 1 xln, clear, w/10% gr sh mat thru out.

89.5-92.5 Halite, 1 xln, clean, w/5% brn sh mat thru out.

92.5-94 Halite, 1 xln, clean, w/-5% brn sh mat.

Note: Crystal size determination---l xln = -1 1/2"; m xln = 3/4"
to 1 1/2"; s xln = -3/4".

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company
 2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat Test
 3. Well Name Red Lake Prospect No. 1
 Location 330 FSL & 660 FWL
 Sec. 22 Twp. 26-N Rge. 16-W County Mohave Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Fed A-4575

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Completion as observation well</u>	ABANDONMENT <input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

EPNG respectfully request permission to continue using this well for observation purposes an additional. SIX MONTHS to August 15, 1971

There have been no changes in well status reflected on Form 25 dated August 10, 1970.

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8. I hereby certify that the foregoing is true and correct.

Signed [Signature] Title Production Clerk Date March 9, 1971

Permit No. 542

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator El Paso Natural Gas Company

2. OIL WELL ☐ GAS WELL ☐ OTHER ☒ (Specify) Strat. Test

3. Well Name Red Lake Prospect No. 1

Location 330 FSL & 660 FWL

Sec. 22 Twp. 26-N Rge. 16-W County Mohave Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease Fed. A-4575

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) <input type="checkbox"/>		(OTHER) <input checked="" type="checkbox"/>	Completion as observation well

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Spudded 7-1-30. Drilled 17 1/2" hole to 39', set 36' of 12 3/4" conductor pipe & cemented backside with 15 sacks. Drld 9-7/8" hole to 1700', set 1692' of 7", 20# casing and cemented with 325 sacks. Drld and cored to 5994' (T.D.). Loaded well with brine and ran 5968' of 2-7/8" tubing. Filled tubing with fresh water.

Well will be left open for observation approximately six months, then plugged and abandoned according to Arizona Commission and USGS requirements.



8. I hereby certify that the foregoing is true and correct.

Signed Carl L. Dardwin Title Production Supervisor Date August 10, 1970

Permit No. 542

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Sundry Notices and Reports On Wells
File Two Copies
Form No. 25



Mohave Co.
22-26n-16w

REPORT OF ANALYTICAL WORK
POTASSIUM-ARGON AGE DETERMINATION

Our Sample No. X-1668

Date Received: 3 September 1970

Your Reference: 4035¹

Date Reported: 30 October 1970

Submitted by:

Mr. J. P. Morris
El Paso Natural Gas Co.
P.O. Box 990
Farmington, N.M. 87401

Sample Description & Locality: *El Paso N.G. #1 Red Lake 22-26n-16w*
Halite drill core, 4035¹, with a few percent of admixed shale.
Probably part of Core #5

Material Analyzed: Whole salt sample was analyzed as well as the clay-size residue after digestion in warm distilled water and removal of sand and silt size fraction.

$Ar^{40}/K^{40} = 0.0096$ (Whole salt)
 $Ar^{40}/K^{40} = 0.0125$ (Clay Fraction)

157 m.y. (Whole salt)
AGE = 202 m.y. (Clay fraction)

Argon Analyses:

	Ar^{40} , ppm.	$Ar^{40}/\text{Total } Ar^{40}$	Ave. Ar^{40} , ppm.
Salt	0.00184	0.233	0.00184
Clay	0.0425	0.785	0.0425
	0.0425	0.795	

Potassium Analyses:

	% K	Ave. %K	K^{40} , ppm
Salt	0.157	0.157	0.192
Clay	2.785	2.785	3.398

Constants Used:

$\lambda_{\beta} = 4.72 \times 10^{-10}$ / year

$\lambda_{\alpha} = 0.585 \times 10^{-10}$ / year

$K^{40}/K = 1.22 \times 10^{-4}$ g/g.

$$AGE = \frac{1}{\lambda_{\alpha} + \lambda_{\beta}} \ln \left[\frac{\lambda_{\beta} + \lambda_{\alpha}}{\lambda_{\alpha}} \times \frac{Ar^{40}}{K^{40}} + 1 \right]$$

Note: Ar^{40} refers to radiogenic Ar^{40} .

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OCT 29 1971

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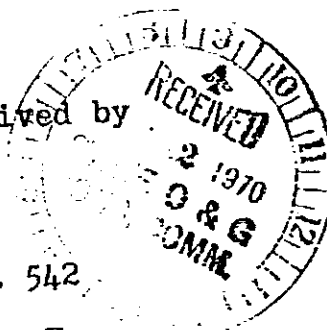
August 10, 1970

The following wells have been received by
the Cut.

El Paso, #1 Red Lake
Sec. 22-26N-16W
Mohave Co. Ariz. Permit 542

Eastern Pert, #1-26 Santa Fe Fee
Sec. 26-20N-27E
Apache Co. Arizona Permit # 543

J. K. Catlett
FOUR CENTRAL STATES CO. ASSOCIATION
P. O. BOX 679
FARMINGTON, NEW MEXICO



El Paso CORE #7 4994-5044
Acc 50' Coarschg Xlw halite:

10 1/2'	HALITE, CLEAR, PINKISH
3 1/2'	" DARK, SMOKY
2 1/2'	" CLEAR
1/4'	BROWN CLAY
33 1/4'	ALTERNATING CLEAR TO SMOKY HALITE
50'	TOTAL

TD 5994

HAND 2 7/8" Hdg.

J. R. S.

August 5, 1970

Memo from John Bannister

Memo to El Paso Natural Gas #1 Red Lake Federal Strat
SW/4 SW/4 Sec. 22-T26N-R16W
~~XXX XXXXXX~~ Mohave County
Our File #542

John Disch telephoned this date to advise us that well was totaled at a depth of 5994'. This was in the salt. Operator cored 100' intervals at each 1000'. In order to perform temperature surveys well will ~~XXX~~ be left open until approximately February, 1971. In the event that there is salt growth (re-crystallization) the operator ran 2-7/8" ~~XXXX~~ non-upset tubing to 5986'. Bottom of the tubing contains a bull plug. The tubing will be left full of fresh water in order that temperature survey instruments may be set in.

Complete set of logs will be forwarded to this office within approximately two weeks by the company geologist, Lefty Morris from Farmington.

July 29, 1970

Memo from James Scurlock

Memo to File #542
El Paso Red Lake Strat
SW/4 SW/4 Sec. 22-T26N-R16W
Mohave County

Telephone conversation with Mr. John Disch. They are preparing to core. Final total depth will be about 6000'. They will run logs and run 2-7/8" tubing. They will suspend tubing, will not cement it. They want to leave the hole open about six months in order to conduct a continuous temperature survey. The tubing will be plugged at the bottom and filled with fresh water and the temperature bomb (instrument) will be placed inside the tubing. Will Plan to plug and abandon about January or February.

16

July 21, 1970

Memo to El Paso #1 Red Lake Strat
SW SW Sec. 22-T26N-R16W
Mohave County
Our File #542

Memo from W. E. Allen

Telephone with Lefty Morris, well site geologist, today.
Set 7" casing at 1692' with 525 sacks. Drilled out with 6-3/4" hole and drilling with fresh water mud. Top of the salt at 1795'. This top was picked on a sudden increase in chloride content in the salt, but didn't actually see any salt until 1830' but assume this 1795' top is good.

Core #1 was 1957' - 2007'. Recovered 49' of halite. Halite is rather dirty with inclusions of red shale throughout. The dirty nature of the halite is due to impurities. Stringers of red shale in the halite as follows:

3" stringer at 1979'
3" " " 1992'
6" " from 1996 1/2' - 96'

Core #2 from 2007' - 2057'. Recovered 48' of halite. Same as above with reddish brown shale as follows:

3" stringer at 2013'
3" " from 2035' - 33' brown shale with large halite crystals imbedded. Had 2 or 3 inches of halite and anhydrite inclusions.

From 2053' - 53' first appeared to be blue gray shale but under microscope turned out to be granular halite. These crystals of halite look like sand. *shale. Kink on GRN 125.*

Core #3 from 3013' - 3063'. Recovered 50' of halite. Had 1/2" brown shale at 3016 1/2'. The halite has a brownish grey cast due to microscopic impurities.

Core #4 from 3063' - 3113'. Recovered 50 1/2' of halite. At 3085' had a 1" shale break, red brown shale.

Currently drilling at 3680' in halite. Expect to take about a 100' of core beginning at about 4000'. Another such core at about 5000' and 6000'. Total depth is proposed to be about 6000'.

July 11, 1970

Memo from W. E. Allen

Memo to El Paso #1 Red Lake Strat
SW SW 22-T26N-R16W
Mohave County
Our File #542

I visited the above location on July 11, 1970. I spent some time visiting with John Disch, Lefty Morris, and Dean Powers, all of El Paso Natural Gas. Also talked with Paul McKissen, a consultant, who had a mud logging unit on this hole.

The rig was drilling ahead at 1640' in the anhydrite and gyp at the time I was there. There was ~~XXXX~~ considerable disappointment that the salt had not been encountered at a lesser depth. The El Paso geologist and engineer couldn't agree on a course of action to follow so all went into Kingman to call their supervising office.

John Disch later told me that they were going to drill the hole to fit the ~~EX~~ 7" casing he had on location, run logs, and then run pipe. They would then reduce the hole to 6-1/4" and drill ahead hoping to encounter salt from just under the 7".

Memo from W. E. Allen

Memo to File #542

July 13, 1970

Report called in from John Disch. Total depth 1700' anhydrite and gyp. Ran sonic and gamma ray, induction and electric logs. Ran 1682' of 7", 20# J-55, casing set at 1692'. Cemented with 325 sacks with one to one lite-poz ~~XXXX~~ plus 7-1/2# of salt per sack. Tailed in with cement plus 12-1/2# of salt per sack. Cement circulated. Plugged down at 1:45 p.m. July 7, 1970. WOC. Nippling up and preparing to drill 6-1/4" hole. John thinks they will ~~XXX~~ drill at least 1000 additional feet unless salt is encountered at a lesser depth. When and if salt is encountered, the mud system will be switched/over to brine for use as a drilling fluid.
off

El Paso #1 Red Lake Strat Test.

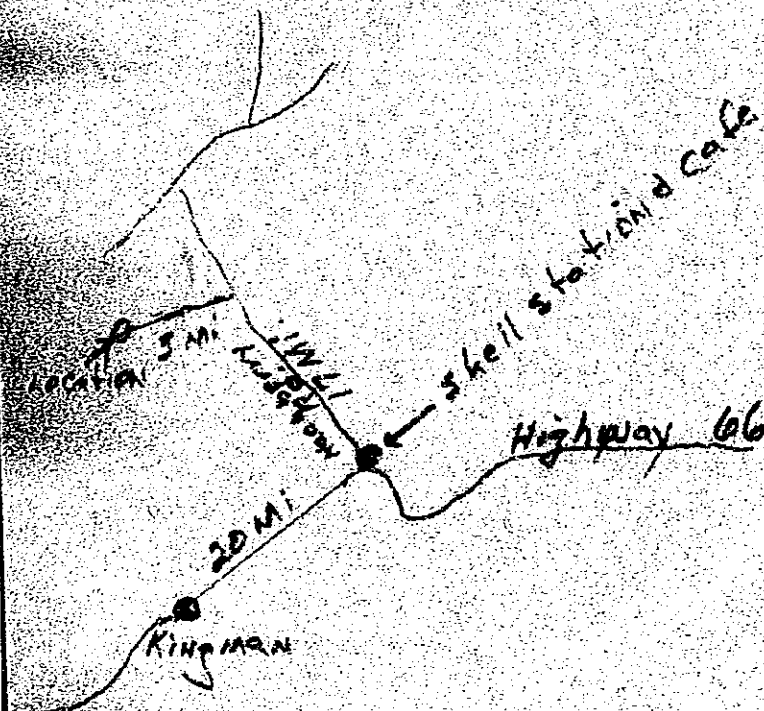
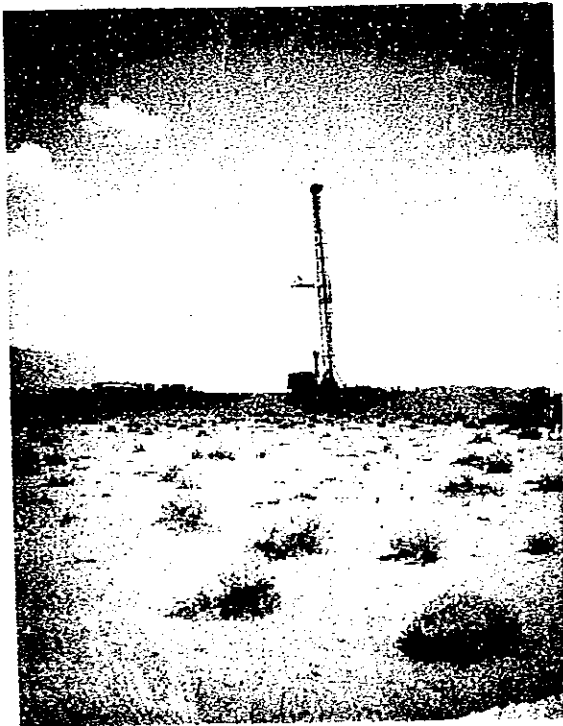
Directions:

Highway 66 East from Kingman 20 miles to Shell service station, Restaurant & Motel. Turn ^{Left} ~~Right~~ on gravel Road, this is Hackberry road for 17 miles. Turn ^{Left} ~~Right~~ towards Red Lake for 3 miles to location. Halfway between Hackberry Road and the well location you will pass by a rather large stock Pen.

WELL SITE CHECK

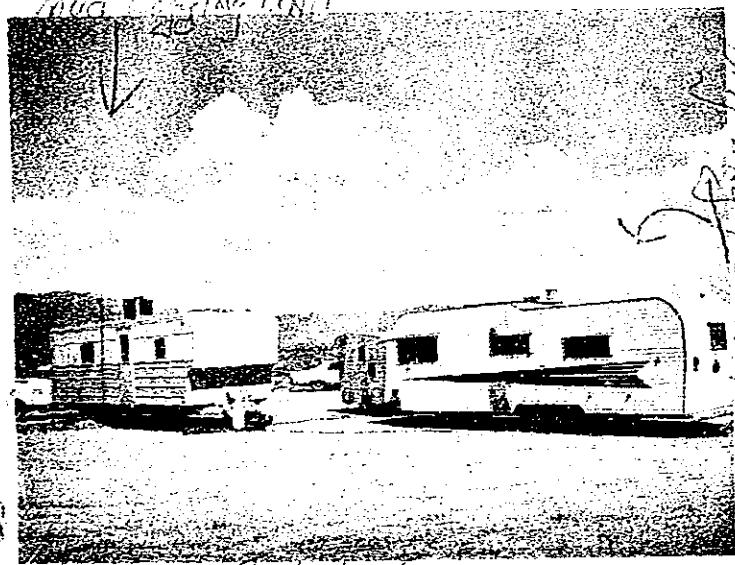
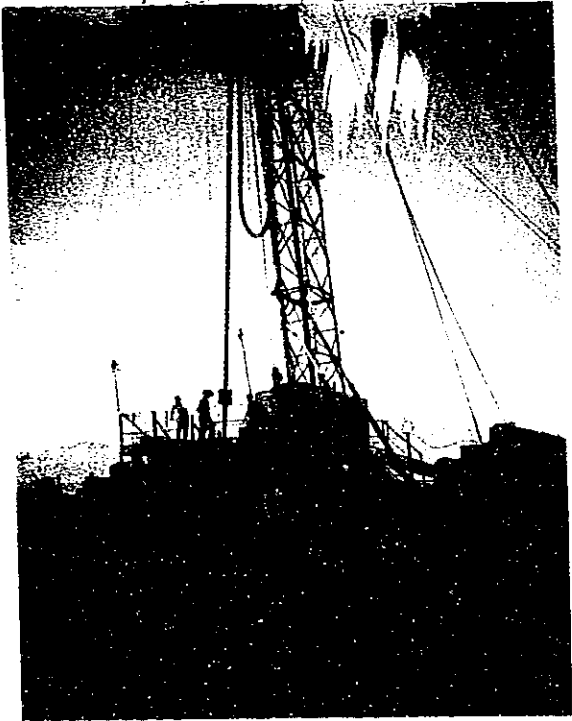
Contractor J.O. BARNES Person(s) Contacted John D. Schuy
 Spud date 7-1-70 7:30 PM Date 7-11-70
 Type Rig Idaco 38 Rotary ✓ Cable — Present Operations Drill at 1640
 Samples From Gub. to T.D. Preparing to drill to 1750 approx, log
 Pipe 1 3/4 O.D. at 39' Cement Cir. Drilling with Air Mud —
 Water Zones No definite water zones Size Hole 9 7/8"
 Lost Circ. Zones 50' to 90' Size Drill Pipe 3 1/2"
 Formation Tops — Type Bit —
 Cores, Logs, DST Will log at approx. 1750 Schlumberger on location No. Bit — Drilling Rate —
 Crews 2 - 12 hrs - shut down Formation Shale & Clay
Sundays Lithology —

REMARKS, PHOTO, MAP



WELL NAME El Paso #1 Red Lake Street Test Permit No. 542
500/1-500/1 SEC 31 T. 14 N. R. 10 E. S. 10 Confidential —

Pictures
(Cont.)



mud pump unit

Drilling & Geol. Quarters

at Red Lake

July 8, 1970

Memo from W. E. Allen

Memo to El Paso Natural Gas Company #1 Red Lake Federal Strat
SW/4 SW/4 Sec. 22-T26N-R16W
Mohave County
Our File #542

Telephone call from John Disch this date. The drill pipe has been pulled from the well and left on the bank because of unusually heavy rains that flooded out the mud pump engine. John reports 8" of water on location when they shut down and left. The rig will be down for an ~~82~~ estimated two or three days. While the rig is down they are going to have the roads and location plated with gravel or some other all weather substance.

The present total depth is 1220' in valley fill (clay). When drilling is resumed 7" casing will be set at approximately 1550'.

July 6, 1970

Memo to El Paso Natural Gas Company #1 Red Lake Federal
Strat 4575
SW/4 SW/4 Sec. 22-T26N-R16W
Mohave County
Our File #542

Memo from James Scurlock

John Disch and Lefty Morris are staying at the
Holiday Inn at Kingman.

Telephone number 753-6262.

June 17, 1970

Memo from John Bannister

Re: El Paso #1 Federal Strat
SE/4 NE/4 Sec. 3:T10N-R10W
Yavapai County
Our File #533

John Disch telephoned this date. The well has been plugged
as follows:

50' plug from 3781' to 3831' (10 sacks of cement).
100' plug from 2360' to 2460' (20 sacks of cement).
100' plug from 1950' to 2050' (20 " " ").
20' surface plug from 0 to 20' (4 sacks of cement).
Heavy mud was set in between plugs.

Well was TD at 3831'.

No salt was encountered and El Paso will move to its Red
Lake well in the near future.

Lefty Morris, geologist El Paso Natural Gas, Farmington, will
send samples to the Commission and John Disch will see that
logs are forwarded from Midland.

June 14, 1970

Memo from James Scurlock, Geolggist

Re: El Paso #1 Federal Strat
SE/4 NE/4 Sec. 3-T10N-R10W
Yavapai County
Our File #533

Visited the well site. Talked to Cliff R. Clyde a tool pusher for Barnes. He lives in Casa Grande.

Total depth of well is 2830' ³⁸³¹?. Had just finished a fishing job which involved retrieval of collars. Drill string had been pulled off bottom about 25' in order to repair the pump and during this time the collars became stuck because of the differential between the pressure in the borehole and the pressure in the formation. They tried to dislodge the collars by spotting diesel, by pulling on the drill string, and by spotting various chemicals. When this proved unsuccessful, they ran a dialog to find where the string was stuck; ran primer cord into position and shut primer cord while holding back torque; backed off drill pipe leaving collars ~~stuck~~ stuck to the side of the hole; went back in with drill pipe and screwed drill pipe back into collars running Johnston tester packer above collars; set packer allowing formation below the packer release from pressure to the atmosphere and thus relieving pressure on the collars which came loose immediately; pulled string and collars. Presently going into hole to recondition. Preparing to log, probably tonight. Schlumberger is on location. Will probably plug tomorrow morning.

Size of hole is 6-1/2". Size of collars OD 5".

Understand USGS has representative on location from Farmington. Also on location are Lefty Morris, geologist, from Farmington; John Disch, engineer, from El Paso; and a Mr. Dean Power (geology trainee?). These latter personnel were in town eating supper. I did not contact them.

Understand rig to be moved north of Kingman in the Red Lake area. Rough direction will be: proceed northeast on highway 66 from Kingman about 20 miles to the Shell station and then northward about 20 miles to the Red Lake turnoff. Thence, four miles approximately westward toward the southern end of Red Lake. There will be a sign.

June 8, 1970

Memo from John Bannister

Memo to El Paso #1 Federal Strat
SE/4 NE/4 3-10N-10W
Yavapai County
Our File #533

John Disch telephoned approximately 9:30 this date. The rig has been repaired and as of 7 a.m. was drilling ahead at 2560' in valley fill. Indications are that the well will not encounter a salt formation. Apparently, a basalt sandstone gave magnetic reflections similar to the desired salt formation. Currently 2005' of 7" pipe has been set with 150 sacks of cement circulated to the surface. Well is drilling with a 6-1/4" bit. Plans are to drill to 4000' (anticipate completion June 11 or 12). If no salt is encountered by 4000', the well will be plugged and abandoned. No water has been ~~ENH~~ encountered, only possible water zone approximately 300 to 400'. Surface owner, Gabe Madrill, has indicated possible interest in taking over the well. If well is to be plugged and abandoned, operator was instructed to put 50' cement in bottom of hole, bring heavy mud up to 1985' (i.e., 20' into 7" casing), 20' surface cement, dry hole marker. If Madrill will take over as a water well, operator is to set 50' cement in bottom of hole, heavy mud to 1985', and 50' of cement on top of the mud. Operator indicated that Sidewall Porosity Logs, Lateral Logs, Density and ~~E~~ Sonic Gamma Ray Logs have been run to 2000'. Same logs will be run on final TD. Commission's samples have been collected.

John Disch indicated that El Paso Natural Gas Company has issued its AFE for the drilling of their Red Lake prospect north of Kingman, Arizona. Application to Drill will be forwarded to the Commission this week. The well will be called El Paso Natural Gas Company #1 Red Lake?,

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL ☒

RE-ENTER OLD WELL ☐

El Paso Natural Gas Company
NAME OF COMPANY OR OPERATOR

600 Building of the Southwest Midland Texas 79701
Address City State

J. O. Barnes Drilling Company
Drilling Contractor

P. O. Box 141 Casa Grande, Arizona 85222
Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor Red Lake Prospect FEDERAL A-4575	Well number 1	Elevation (ground) 2804.36
Nearest distance from proposed location to property or lease line: 330 feet	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: None feet	
Number of acres in lease: 2560	Number of wells on lease, including this well, completed in or drilling to this reservoir: -0-	

If lease, purchased with one or more wells drilled, from whom purchased:
N. A.

Well location (give footage from section lines) 330' From South Line, 660' From	Section—township—range or block and survey Sec. 22, T-26-N, R-16-W	Dedication (Comply with Rule 105) N. A.
--	---	--

Field and reservoir (if wildcat, so state) Wildcat Stratigraphic Test	County Mojave
--	------------------

Distance, in miles, and direction from nearest town or post office

Proposed depth: 6000 feet	Rotary or cable tools rotary	Approx. date work will start June 19, 1970
Bond Status on file	Organization Report On file X Or attached	Filing Fee of \$25.00 mailed separately Attached from El Paso, Texas

Remarks:
This well is a stratigraphic test. It will be plugged and abandoned within six months of date after reaching total depth.

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Regional Production Clerk of the El Paso Natural Gas Company (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

[Signature]
Signature

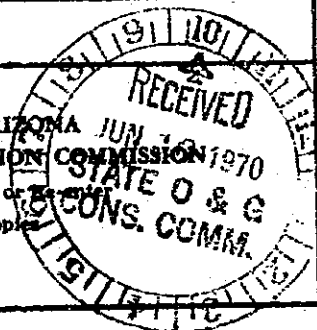
June 9, 1970
Date

Permit Number: 542
Approval Date: 6-19-70
Approved By: *[Signature]*
Notice: Before signing in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

Form No. 2

(Complete Reverse Side)

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies



1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO _____
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES _____ NO _____ If answer is "yes," Type of Consolidation _____
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner U. S. Department of Interior	Land Description Open Range
Section 22, T-26-N, R-16-W, Mohave County, Arizona	
	<div style="text-align: center;"> CERTIFICATION </div> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p>Date Surveyed April 14, 1970</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p>Basil R. Smith</p> <p>Certificate No. RPE #3058</p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
12-3/4"	59	K-55	Surf.	30'	Redi-mix to surface	1 cu. yd.
7	24	J-55	Surf.	1200'	1200 to surface	350 sxs.



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: **EL PASO NATURAL GAS COMPANY**
(OPERATOR)

to drill a well to be known as

EL PASO NATURAL GAS COMPANY #1 RED LAKE FEDERAL *STRAT*
(WELL NAME) *4575*

located **330' FSL - 660' FWL**

Section **22** Township **26N** Range **16W**, **MOHAVE** County, Arizona.

The **NONE (STRAT TEST)** of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this **19th** day of **JUNE**, 19 **70**.

OIL AND GAS CONSERVATION COMMISSION

By

John Cannister
EXECUTIVE SECRETARY

PRIOR TO BEING ALLOWED TO PROCEED WITH THE WELL,
YOU MUST BE IN FULL COMPLIANCE WITH ARIZONA
LCS, SECTION 1600 (GEOLOGICAL) WITH RESPECT
TO THE PRODUCE TO BE PRODUCED.

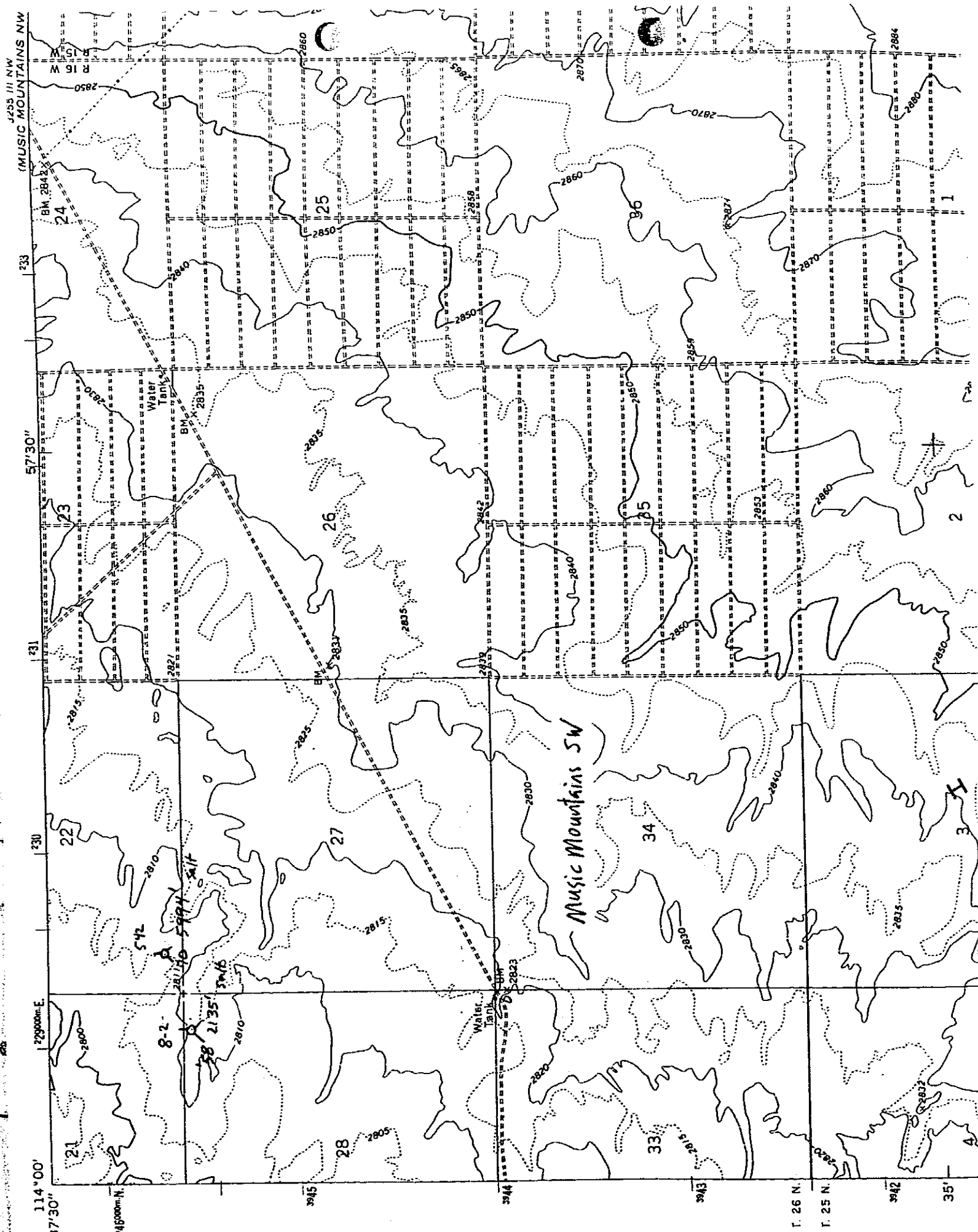
PERMIT N° 542

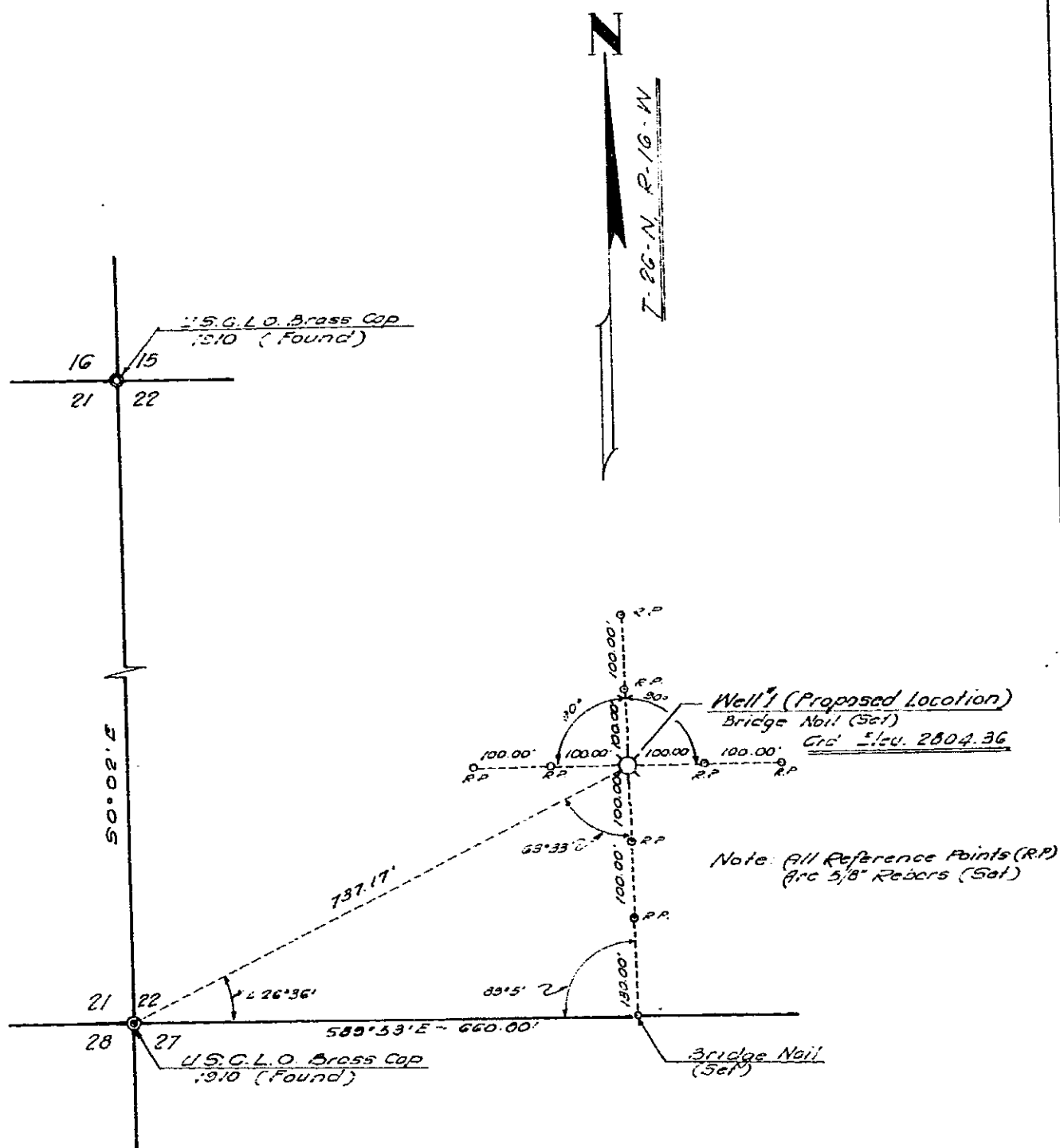
RECEIPT NO. 2876
API NO. 02-015-20002

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

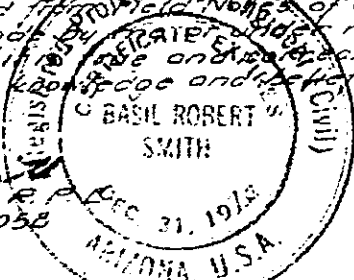
SAMPLES ARE REQUIRED



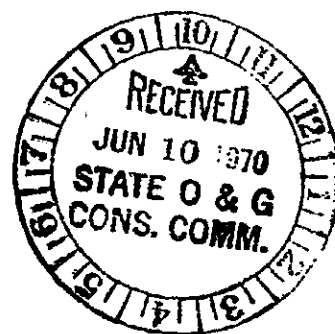


Certificate
This is to certify that I am a Registered Professional Civil Engineer and that this Map was prepared by me or under my direction and that it is true and correct to the best of my knowledge and belief.

Basil R. Smith
Basil R. Smith, R.P.
Arizona Lic. # 3038



542



Brass Cap Set in Concrete U.S. Department of Interior Geological Survey 18 DOR Marked Elev. 2831.00

PRINTS		REVISIONS		EL PASO NATURAL GAS COMPANY EL PASO, TEXAS PROPOSED WELL LOCATION Section 22, T. 26-N, R. 16-W G. & S. R. M. Mohave County, Arizona	
				SCALE: 1" = 200'	DATE: 4-14-70
				DRAWN BY: JSE	CHECKED BY: NO.
FORM 7-124R (6-56)					

Operator EL PASO NATURAL GAS COMPANY

Bond Company Federal Insurance Co. Amount \$25,000

Bond No. 8019 79 57 Date Approved 10-25-65

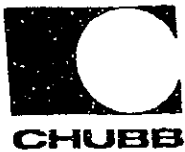
DATE **Permits covered by this bond:**

35

457

533

5 1/2



CHUBB GROUP of Insurance Companies

300 Diamond Shamrock Tower, 717 N. Harwood, Dallas, TX 75201-6502
Phone: (214) 754-0777

RECEIVED

OCT 30 1985

O & G CONS. COMM.



FEDERAL INSURANCE COMPANY

October 28, 1985

Ms. Lois Rogers
Oil & Gas Conservation Commission
State of Arizona
1645 West Jefferson
Suite 420
Phoenix, Arizona 85007

Re: Federal Insurance Company Bond No. 8019-79-57 on
behalf of El Paso Natural Gas Company in favor of
the State of Arizona in the amount of \$25,000
effective 10/14/65 for Blanket Drilling Bond

Dear Ms. Rogers:

On 9/13/85 I sent your office a letter requesting
cancellation on the above captioned bond because it
had been replaced by another surety company. On 9/23/85
I received a letter from you informing us that you
had not yet received a replacement bond on this.

Would you kindly check your records at this time and
see if this replacement bond has now been received
and if so allow us cancellation on our bond effective
10/15/85 if possible or any other date you may so
specify.

Thanks for all your help on this and I look forward
to hearing from you soon.

Sincerely,

Candace Elk
Candace Elk
Surety Department

ce

El Paso
Natural Gas Company

P. O. BOX 1492
EL PASO, TEXAS 79978
PHONE 915-541-2600

October 23, 1985

State of Arizona
Oil and Gas Conservation Commission
1645 West Jefferson, Suite 420
Phoenix, Arizona 85007

Re: Bond No. 184536G3388 - *active bond file*
Performance Bond - \$25,000

Gentlemen:

Enclosed is the captioned bond with El Paso Natural Gas Company as principal and The Travelers Indemnity Company as surety which replaces Bond No. 8019-79-57 with Federal Insurance Company as surety.

Please signify your acceptance of the enclosed bond and authority to release and cancel Federal's Bond No. 8019-79-57 by signing and returning the enclosed copy of this letter.

Very truly yours,

Lynn Gallegos

Lynn Gallegos
Coordinator
Risk Management

cwb

Enclosures

Received this 26 day of October, 1985.

By: R. G. Ytana

LIABILITY UNDER THIS BOND MAY NOT
BE TERMINATED WITHOUT WRITTEN
PERMISSION OF THIS COMMISSION.

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 8019-79-57

That EL PASO NATURAL GAS COMPANY

of the EL PASO in the TEXAS
County of: State of:

as principal, FEDERAL INSURANCE COMPANY
and

of STATE OF NEW JERSEY

AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State to wit:

Blanket Bond for State of Arizona

(May be used as blanket bond or for single well)

CANCELLED
10-25-65
DATE

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Twenty Five Thousand & No/100 Dollars (\$25,000.00)

Witness our hands and seals, this 14th day of October, 1965

EL PASO NATURAL GAS COMPANY

R. W. Hamer
Vice President

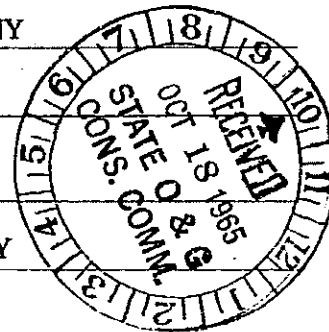
Principal

Witness our hands and seals, this _____ day of _____

FEDERAL INSURANCE COMPANY

Carl Norris
ARIZONA RESIDENT AGENT

J. M. Muder
Surety Attorney-in-Fact



(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved
Date 10-25-65
STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
By: John Hamster

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Bond
File Two Copies
Form No. 2

Permit No. _____

Certified Copy of
POWER OF ATTORNEY

Know all Men by these Presents, That the **FEDERAL INSURANCE COMPANY**, 90 John Street, New York, New York, a New Jersey Corporation, has constituted and appointed, and does hereby constitute and appoint

J. G. Ponder
J. D. Ponder
of
El Paso, Texas

each its true and lawful Attorney-in-Fact to execute under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds of either of the following classes, to-wit:

1. Bonds on behalf of contractors in connection with bids, proposals or contracts to or with the United States of America, any State or political subdivision thereof or any person, firm or corporation.
2. Surety Bonds to the United States of America or any agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; License and Permit bonds or other indemnity bonds under the laws, ordinances or regulations of any State, City, Town, Village, Board or other body or organization, public or private; bonds to Transportation Companies, Lost Instrument bonds, Lease bonds, Workmen's Compensation bonds, Miscellaneous Surety bonds and bonds on behalf of Notaries Public, Sheriffs, Deputy Sheriffs and similar public officials.
3. Bonds and Undertakings (other than Fiduciary Bonds) filed in any suit, matter or proceeding in any Court, or filed with any Sheriff or Magistrate, for the doing or not doing of anything specified in such Bond or Undertaking, in which the penalty of the bond or undertaking does not exceed the sum of Fifty Thousand Dollars (\$50,000.00).

In Witness Whereof, the said **FEDERAL INSURANCE COMPANY** has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 1st day of February 1964.

FEDERAL INSURANCE COMPANY

By

Frederick C. Gardner

Frederick C. Gardner
Vice-President

Davis Quinn

Davis Quinn
Assistant Secretary



STATE OF NEW YORK
County of New York

ss.:

On this 1st day of February 1964, before me personally came Davis Quinn, to me known and by me known to be Assistant Secretary of the **FEDERAL INSURANCE COMPANY**, the corporation described in and which executed the foregoing Power of Attorney and the said Davis Quinn being by me duly sworn, did depose and say that he resides in the City of New York, in the State of New York; that he is Assistant Secretary of the **FEDERAL INSURANCE COMPANY** and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; that he is acquainted with Frederick C. Gardner and knows him to be Vice President of said Company, and that the signature of said Frederick C. Gardner subscribed to said Power of Attorney is in the genuine handwriting of said Frederick C. Gardner and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Acknowledged and Sworn to before me
on the date above written.

Marion J. McGrath

Notary Public

MARION J. McGRATH
NOTARY PUBLIC, State of New York
No. 24-7837850
Qualified in Kings County
Certificate filed in New York County
Commission Expires March 30, 1964



CITY AND COUNTY OF NEW YORK: ss

I, the undersigned, Assistant Secretary of the FEDERAL INSURANCE COMPANY, do hereby certify that the following is a true excerpt from the By-Laws of the said Company as adopted by its Board of Directors on March 11, 1953 and amended January 2, 1964 and that this By-Law is in full force and effect.

"ARTICLE XIX.

Section 2. All bonds, undertakings, contracts, powers of attorney, and other instruments other than as above, for and on behalf of the Company which it is authorized by law or its charter to execute, may and shall be executed in the name and on behalf of the Company either by the Chairman or the Vice-Chairman or the President or a Vice-President, jointly with the Secretary or an Assistant Secretary, under their respective designations, except that any one or more officers or attorneys-in-fact designated in any resolution of the Board of Directors or the Executive Committee, or in any power of attorney executed as provided for in this section, may execute any such bond, undertaking or other obligation as provided in such resolution or power of attorney."

And I further certify that I have compared the foregoing copy of the POWER OF ATTORNEY with the original thereof and the same is a correct and true copy of the whole of said original Power of Attorney and that said Power of Attorney has not been revoked.

And I further certify that said FEDERAL INSURANCE COMPANY is duly licensed to transact fidelity and surety business in each of the States of the United States of America, Puerto Rico, and each of the Provinces of the Dominion of Canada with the exception of Prince Edward Island; and is also duly licensed to become sole surety on bonds, undertakings, etc., permitted or required by the laws of the United States.

Given under my hand and seal of said Company at New York, N. Y., this 14th day of

October, 1965

Walter La Forge
Assistant Secretary

February 10, 1972

Mr. F. H. Wood
El Paso Natural Gas Company
P. O. Box 990
Farmington, New Mexico 87401

Re: El Paso #1 Red Lake Strat
SW/SW Section 22-T26N-R16W
Mohave County
Permit #542

Dear Mr. Wood:

This letter will constitute authority to retain the above referenced well in its present temporarily abandoned status.

So long as this well remains in the present status, the Commission will require a semi-annual report stating the condition of the well. Form 25, Sundry Notices, may be used for this report. Should surveys of any kind be performed on this well, we will require this to be reported to the Commission, 20 days following completion of survey or work.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b

Encl.

El Paso Natural Gas Company

El Paso, Texas 79999

ADDRESS REPLY TO
POST OFFICE BOX 990
FARMINGTON, NEW MEXICO 87401

January 11, 1972

Mr. W. E. Allen
Arizona Oil & Gas Conservation Commission
4515 North 7th Avenue
Phoenix, Arizona 85013

Re: El Paso No. 1 Red Lake
SW Section 22, T26N, R16W
Mohave County, Arizona

Dear Mr. Allen:

Attached is a sample description for all core intervals on the Red Lake well.

Your letter has been given to Mr. C. E. Matthews, Division Production Manager, to supply the other information requested in your letter of December 29, 1971.

Hopefully this information will help bring your records up-to-date.

Sincerely,

R. A. Ullrich

R. A. Ullrich
Regional Geological Manager
Energy Resource Development

RAU:bf

Attachment

RECEIVED
JAN 13 1972

O & G CO.

542

December 29, 1971

Mr. Richard A. Ullrich
El Paso Natural Gas Company
P. O. Box 990
Petroleum Plaza Building
Farmington, New Mexico 87401

Re: El Paso #1 Red Lake Strat
SW/SW Section 22-T26N-R16W
Mohave County
Permit #542

Dear Mr. Ullrich:

On March 9, 1971 permission was requested to leave the above well in a temporary abandoned condition. This request was granted for a 6 month period to expire on October 15, 1971. Please advise use of the current status of this well and also indicate your future plans for same.

Shortly after the well was drilled, it was indicated the current plans called for periodic temperature surveys to be made on this hole. If such surveys were made, please forward copies of this information to this office.

Our records indicate that there was a total of 7 cores taken from this hole. Our files contain the depth intervals for cores # 1, 2, 3, 4, and 7. However, we have no depth intervals for cores 5 and 6. Would you please furnish this information and also the description for all cores.

It will be appreciated if you will supply the above requested information as quickly as possible.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEM/r1b



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

November 22, 1971

The following logs on El Paso Natural Gas Company - Bullard Wash #1, has been carried to Acme Blue Print and Photocraft for reproducing same logs for Humble Oil and Refining Company. Also El Paso Natural Gas Company, Red Lake No. 1 Permit #533 (El Paso Natural Gas Company- Bullard Wash #1)

SIDEWALL NEUTRON POROSITY LOG (SCHLUMBERGER)
BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY (SCHLUMBERGER)
COMPENSATED FORMATION DENSITY LOG, GAMMA-GAMMA- (SCHLUMBERGER)
DUAL INDUCTION-LATERLOG + INDUCTION-ELECTRICAL LOG (SCHLUMBERGER)

Permit 542 (EL PASO NATURAL GAS COMPANY, RED LAKE NO. 1)

- ✓ 3-Dimensional Velocity Log (BIRDWELL)
- ✓ CALIPER LOG (BIRDWELL)
- ✓ DENSITY LOG (BIRDWELL)
- ✓ TEMPERATURE LOG (BIRDWELL)
- ✓ FOUR-ARM HIGH RESOLUTION CONTINUOUS DIPMETER (SCHLUMBERGER)
- ✓ INDUCTION-ELECTRICAL (SCHLUMBERGER)
- ✓ SIDEWALL NEUTRON POROSITY LOG (SCHLUMBERGER)

RECEIVED BY ACME BLUEPRINT & PHOTOCRAFT

Harold L. Loh

Returned 11-23-71

...atomic creep along
it."
own landslide areas also
been avoided in the
routing.

12 The Arizona Republic X Phoenix, Tues., Nov. 16, 1971



Dry bed of Red Lake, proposed site of underground nuclear blast

Hearing today on dry lake A-blast

KINGMAN — Experts in the atomic energy field are expected here today for a public hearing on a proposed nuclear blast in a dry lakebed 20 miles northeast of the city.

Although the proposal was made more than two years ago, this hearing, at 10 a.m. at Kingman High School, will be the first held here. Public hearings have been held in Phoenix and Las Vegas on the proposal.

El Paso Natural Gas Co. and the Atomic Energy Commission propose to detonate an

underground atomic device in Red Lake to create a giant cavity for the storage of natural gas intended for California customers.

J. Leonard Neal, owner of the ranch surrounding Red Lake, and the Hualapai Indian Tribal Council objected to the blast at the Las Vegas hearing.

Neal expressed concern for the blast's effects on the water table and tribal spokesmen said they feared their water supply would be endangered.

Following other objections from local ranchers and businessmen, County Supervisor Joe Ricca asked for the public hearing in order to "inform the public."

John Kelly, director of the Division of Peaceful Nuclear Explosives in Washington; Anthony Uewing, also of that office; Donald C. Gilbert, executive director of the Arizona Atomic Energy Commission, and Sam Smith, director of exploration for El Paso Natural Gas Co. were among those expected.

Officials try to calm area nuclear fear

KINGMAN — Spokesmen for El Paso Natural Gas Co. and the Atomic Energy Commission assured Mohave County residents yesterday that a proposed underground nuclear blast would not endanger their water supply.

Richard Pastore of the AEC's Peaceful Uses Division office in Nevada told the audience that extensive tests would be made before the project is approved by his agency.

The hearing at Kingman High School was called by the Board of Supervisors after county residents led by rancher J. Leonard Neal expressed opposition to the EPNG-AEC proposal to blast a huge cavity for storage of natural gas beneath dry Red Lake, 20 miles northwest of Kingman.

Pastore, after Neal told him one of his water wells went to a depth of 250 feet very near the dry lake bed, said the blast at 5,000 feet underground was not expected to disturb the water supply.

Dr. Phillip Randolph, chief EPNG spokesman, told the audience of 250 that the storage would be used for natural gas to be piped to California customers during peak demand seasons.

Randolph said his company had conducted tests in western Arizona, seeking salt deposits suitable for creating a cavity. He said there are two areas west of Phoenix as well as the location northeast of Kingman. His company began looking closely at Mohave County because of its relatively sparse population.

The public hearing was termed a "forum" by county Supervisor George Ricca. He said no decision would be made on yesterday's hearing.

file 542

September 9, 1971

Mr. C. C. Goodwin
El Paso Natural Gas Company
600 Building of the Southwest
Midland, Texas 79701

Re: El Paso Natural Gas Company #1 Red Lake Strat
SW/SW Section 22-T26N-R16W
Mohave County
Our File #542

Dear Mr. Goodwin:

Would you please submit Sundry Notices and Reports on Wells (Form 25)
to this office giving the status and any plans that you might have for
the above referenced well.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/r1b



OFFICE OF
Oil and Gas Conservation Commission

STATE OF ARIZONA
4515 NORTH 7TH AVE.
PHOENIX, ARIZONA 85013
PHONE: (602) 271-5161

June 18, 1971

Mr. Ted Strickland
Rocky Mountain Well Log Service Company
1753 Champa Street
Denver, Colorado 80202

Dear Mr. Strickland:

In response to your request letter dated June 15, 1971 we are sorry to report that we have no logs on the Coffey Drilling Company #10 Keams Canyon, the Coffey Drilling #2 Keams Canyon, and the Scott Brothers #1 Well. We are, however, enclosing under separate cover the logs on the following wells that we do have available.

Eastern Petroleum Company #1-16 Santa Fe Fee
Our File #543

Induction-Electrical Log
Cement Bond Log & Gamma Ray
Rob's Well Log
Log by Robert E. Lauth

Hallett Development Company #1 State 10602
Our File #451

Gamma-Collar Perforation Record
Temperature Log
Electrical Log

Hallett Development Company #2 State 10603
Our File #465

Electrical Log

El Paso Natural Gas #1 Red Lake
Our File #542

Compensated Formation Density Log
3-Dimensional Velocity Log
Caliper Log
Density Log
Borehole Compensated Sonic Log - Gamma Ray

Page 2
June 18, 1971
Mr. Ted Strickland

El Paso Natural Gas #1 Red Lake (Cont.)
Temperature Log
Sidewall Neutron Porosity Log
Induction-Electrical Log
Four-Arm High Resolution Continuous Dipmeter

We will appreciate the return of these logs at your earliest convenience.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc. Under Separate Cover (2)

Rocky Mountain Well Log Service Co.

1753 Champa Street

DENVER, COLORADO

266-0588 Area Code 303

80202

BOB ANDREWS, Division Manager



CASPER, WYOMING

Bob Fitzgerald
600 SOUTH DAVID
PHONE 234-6921

June 15, 1971

MIDLAND, TEXAS

David Clark
105 WEST WALL
PHONE 682-0591

Mr. W. E. Allen
Arizona Oil & Gas Conservation
4515 N. 7th Avenue
Phoenix, Arizona 85013

Dear Mr. Allen:

Enclosed is a list of seven logs, I would like to borrow from you. We will return these prints immediately upon the completion of the reproduction process.

Thank you very much for your cooperation

Very truly yours,

A handwritten signature in cursive script, appearing to read "Ted Strickland".

Ted Strickland

TS:rt

RECEIVED

JUN 17 1971

O & G CONS. COMM.

LOGS

W-10 Coffey Drilling Company	# 10 Keams Canyon	13-28N-19E	Navajo
W-11 Coffey Drilling Company	# 2 Keams Canyon	13-28N-19E	Navajo
543 Eastern Petroleum Company	# 1-26 Santa Fe-Fee	26-20N-27E	Apache
W-11 Hallett Development Company	# 1 State 10602	26-19N-26E	Apache
W-15 Hallett Development Company	# 2 State 10603	26-19N-26E	Apache
W-16 Scott Brothers	# 1 Well	5-14N-22E	Navajo
W-17 El Paso Natural Gas	# 1 Red Lake	22-26N-16W	Mohave

Logs Req. by Rky Mtn. Well Log Service
6-15-71.

RECEIVED

JUN 17 1971

O & G CONS. COMM.

March 2, 1971

Mr. C. C. Goodwin
El Paso Natural Gas Company
600 Building of the Southwest
Midland, Texas 79701

Re: El Paso Natural Gas Company #1 Red Lake Strat
SW/4 SW/4 Sec. 22-T26N-R16W
Mohave County
Our File #542

Dear Mr. Goodwin:

According to our Form 25, Sundry Notices and Reports on Wells,
which you filed with the Commission on August 10, 1970, you
indicated that the referenced well would be left open for obser-
vation for approximately six months.

Will you please advise this office by filing another Form 25 on
which you state your plans for this well.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA:jd
Enc.

August 25, 1970

Mr. J. W. Snider
Amerada Hess Corporation
Box 2040
Tulsa, Oklahoma 74102

Re: El Paso Red Lake #1 Strat
SW/4 SW/4 Sec. 22-T26N-R16W
Mohave County
Our File #542

Dear Mr. Snider:

The enclosed data is about all we have in our files at this time. We are expecting to receive additional data from El Paso regarding the cores and so forth. Logs have been forwarded to us.

Please let us know if we can be of further assistance.

Yours truly,

James Scurlock
Geologist

JS:jd
Enc.

AMERADA DIVISION
AMERADA HESS CORPORATION

August 20, 1970

Box 20-10
TULSA, OKLAHOMA 74102
918-584-5554

Mr. James Scurlock
Room 202
1824 West Adams
Phoenix, Arizona 85007

Dear Mr. Scurlock:

Thank you for your prompt reply to my request and questions.
I am especially grateful for the logs and drill hole information on the
two Kerr-McGee tests.

At a future date, when the data is available, I would appreciate
receiving information on the recently completed El Paso No. 1 Red Lake,
Sec. 22, T.26N., R. 16W.

Exploration Activities of Amerada in Arizona were administered
and directed from our District Office in Durango, Colorado. Mr. John Gregg
was District Geologist.

Since February the administration of our exploration activities
has undergone reorganization. Mr. John Gregg is now Area Manager for the
Southern Rocky Mountain area which includes Arizona. His office is in
Denver. If you need information or assistance on Amerada past, present
or future operations, he will be glad to help you.

Yours very truly,

J. W. Snider
J. W. Snider

JWS/csc

cc: Mr. John R. Gregg
Amerada Hess Corporation
Box 1514
5786 South Ulster St.
Englewood, Colorado 80110



AIR MAIL

June 19, 1970

Mr. C. C. Goodwin
El Paso Natural Gas Company
600 Building of the Southwest
Midland, Texas 79701

Re: El Paso Natural Gas Company #1 Red Lake Federal (4575)
SW SW Section 22-Township 26N-Range 16W
Mohave County, Arizona
Our File #542

Dear Mr. Goodwin:

Enclosed is the approved Application for Permit to Drill
(two copies), Receipt No. 2876 covering the \$25 filing fee,
two copies of the plat, and Permit To Drill No. 542. Also
enclosed are instruction sheets concerning samples and re-
ports required by this office.

Yours truly,

John Bannister
Executive Secretary

jd
Enc.

El Paso Natural Gas Company

El Paso, Texas 79999

June 18, 1970

Oil and Gas Conservation Commission
State of Arizona
1624 West Adams
Suite 202
Phoenix, Arizona 85007

Re: Red Lake #1
T-26-N, R-16-W
Section 22: SW/4
Mohave County, Arizona

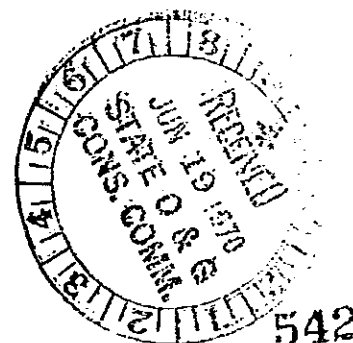
Gentlemen:

Attached is our check No. 64,740 in the amount of \$25.00 to cover your fee for a drilling permit on the captioned well. It is our understanding that the request for a permit has already been filed.

Yours very truly,

Charles Higgins
Charles Higgins
Supervising Landman
Land Department

CH:JP:nja
Attachment
A-410



PLEASE DETACH HERE BEFORE PRESENTING THIS CHECK				
FORM 3-14 (REV. 3-67) El Paso Natural Gas Company, El Paso, Texas - Remittance Statement				
INVOICE DATE	INVOICE NUMBER	DESCRIPTION	AMOUNT	DISC. OR DEDUCTION
		FEE FOR DRILLING PERMIT ON RED LAKE #1 WELL SW/4 SEC. 22, T-26-N, R-16-W, MOHAVE COUNTY, ARIZONA	25.00	
				NET AMOUNT
				25.00

(DO NOT TYPE BELOW THIS LINE)